**JMS Lesson Plan**

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| **Teacher:** | Shelly Vincent | | **Subject:** | | Science | |
| **Date:** | **Beginning:** 3/5/2018**Ending:**  3/9/2018 | | **Grades:** | | 8th | |
| **Learning**  **Targets:** | I can obtain, evaluate, and communicate information to support the claim that EM (light) waves behave differently than mechanical (sound) waves.  Obtain, evaluate, and communicate information about gravity, electricity, and magnetism as major forces acting in nature. | | **Connects with:** | | **Math –** use data to create scatter plots  **ELA** – CSET/CER | |
| **Standard(s):** | S8P4a,b,c,d,e,f (review and assessment)  S8P5a. Construct an argument using evidence to support the claim that fields (i.e., magnetic fields, gravitational fields, and electric fields) exist between objects exerting forces on each other even when the objects are not in contact.  S8P5b. Plan and carry out investigations to demonstrate the distribution of charge in conductors and insulators. | | | | | |
| **DOK Level** | **Activities / Assignments / Questions** | | | **Assessment** | | |
| **­­**  **Key Terms** | electric charge, electric field, static charge, induction, electric potential, volt, conductor, insulator, resistance, ohm, grounding, electric current, ampere, Ohm’s Law, electric cell | | | Formative | | Selected Response  Constructed Response  Verbal  Rubric  Other |
|  | **Anchor Activities** – USA Test Prep (review, reinforce and/or enhance) | | |  | |  |
| **2** | **Bell Ringer** – warm ups (GoFar)  **USA Test Prep** – pretest and quiz/assessment  **Video Clips –** <https://www.youtube.com/watch?v=ViZNgU-Yt-Y> (investigations with static electricity)  <https://www.youtube.com/watch?v=ubZuSZYVBng> (Van de Graff)  <https://www.youtube.com/watch?v=lcU87hr5cnI> (What is static electricity?)  **Reading Sciences** – Telescopes (extra credit) | | | Formative  Summative | | Selected Response -  Constructed Response –  Verbal  Rubric  Other |
| **3** | Analyzing relevance of data for argumentative claim (small group post – it paper) with peer evaluations of relevance. | | | Formative  Summative | | Selected Response  Constructed Response –  Verbal  Rubric-  Other – pics and diagrams  Other – |
| **4** | | **Claim Evidence Reasoning** – Make a scientific claim based on the evidence given (magnetic fields, gravitational fields and electrical fields) Argumentative using CSET/CER | | Formative  Summative | | Selected Response  Constructed Response -  Verbal  Rubric – project 4 point  Other –  Other – |
| **Resources:** | Textbook – Physical Science (McDougal Littell)  CSET  USA Test Prep  Go Far questions | | | | | |

**Monday**- Review of Wave Energy

**Tuesday** – Post assessment (Wave Energy)

**Wednesday** – Electric current is a flow of charge

**Thursday** – Moving electric charges transfer energy

**Friday** – Charges need a continuous path to flow